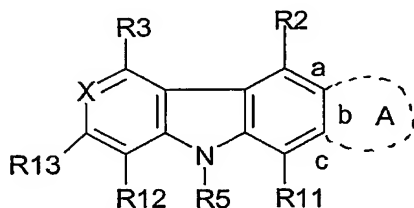


IN THE CLAIMS

1. (currently amended) A method of treating a disease related to a pre-messenger RNA splicing process within a cell comprising administering to a patient in need thereof~~Use of indole-derived compounds such as~~ a medicine comprising a compound of derivatives of benzo-indole or pyrido-indole derivative corresponding to the following formula I:



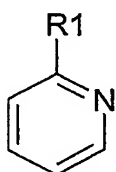
Formula I or a pharmaceutically

acceptable salt, isomer and/or mixture thereof, wherein

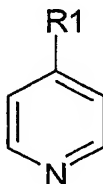
~~when ring A is in position b:~~

X represents N or CR⁴ or N⁺R⁴ anhydro base,

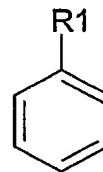
and cycle ring A, which is in position b corresponds to



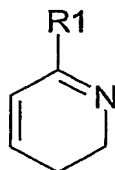
or



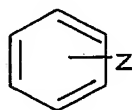
or



or



or

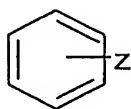


or

~~when cycle A is in position a or c:~~

X represents N,

and cycle ring A, which is in position a or c corresponds to



~~in which~~wherein \tilde{R}_1 represents:

\tilde{a} an atom of hydrogen or halogen or a $-C=N-OH$ or $-O-C(=O)(CH_3)$ or $-C\equiv N$ group, or

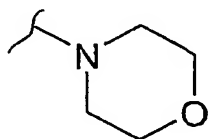
\tilde{a} $-N-R_6R_7$ group,

~~where~~wherein R_6 and R_7 represent independently of one another:

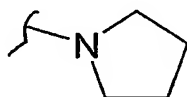
\tilde{a} a hydrogen atom,

\tilde{a} a saturated or unsaturated ring ~~at having~~ C_6 , ~~saturated or unsaturated, possibly optionally~~ containing an atom of nitrogen and possibly substituted by one or more alkyl groups at C_1 to C_3 , or

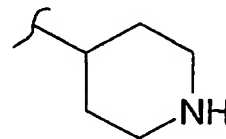
\tilde{a} a linear, branched and/or unsaturated alkyl group ~~at having~~ C_1 to C_{13} in which one or more atoms of carbon ~~can be~~ optionally substituted by an atom of nitrogen, ~~the aforementioned~~ said alkyl group being ~~possibly optionally~~ substituted by one or more $-OH$ and/or $=O$ groups and/or by a group ~~such as~~ selected from the following compounds:



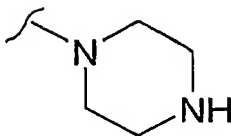
or



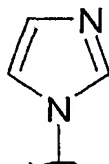
or



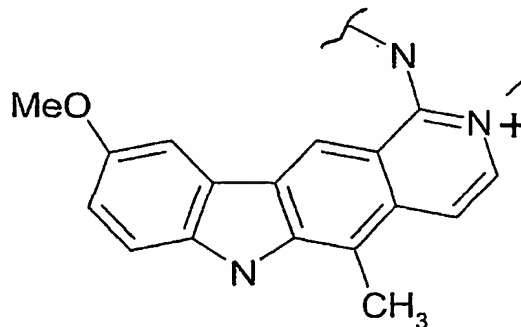
or



or



or



~~the aforementioned~~said group being ~~possibly~~optionally substituted by an alkyl group at C1 to C3 which itself is possibly substituted by an amino group, or

~~a~~ -NH-R8 group

wherein R8 represents an alkyl-N-R9R10 group,

~~where~~wherein the alkyl group of said alkyl-N-R9R10 group represents a linear or branched group at having C1 to C13 ~~possibly~~optionally unsaturated and/or substituted by one or more alkyl groups at C1 to C3 and/or hydroxyl groups, and

R9 and R10 represent independently of one another a hydrogen atom or an alkyl group at having C1 to C4 ~~possibly~~optionally substituted by one or more hydroxyl and/or oxo groups,

R2 represents a hydrogen atom, a methyl group or a -NH-(CH₂)₃-N(CH₃)₂ group, or R2 is absent when said ring A is in position a,

R3 represents a hydrogen atom, a halogen atom or a methyl, amino or methoxymethyl group, or said -NH-R8 ~~such as defined previously~~group,

R4 represents a hydrogen atom, a hydroxyl or alkyl group at having C1-C6 or a methoxy group ~~possibly~~optionally substituted by a phenyl group,

R5 represents a hydrogen atom or a methyl or methoxymethyl group when X represents N or CR₄ or~~and~~ R5 is absent when X represents N⁺R₄ anhydro base,

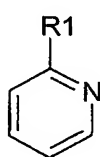
Z represents a hydrogen atom or a hydroxyl or methoxy group or -O-alkyl-C=O(O-alkyl), with alkyl representing a group at having C1-C6,

R11 and R12 represent independently of one another a hydrogen atom or an alkyl group at having C1-C3, ~~and~~or R11 is absent when said ring A is in position c, and

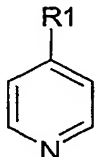
R13 represents a hydrogen atom or a methyl group, ~~and. the pharmaceutically acceptable salts of the aforementioned compounds, their isomers and/or mixtures,~~

~~for the preparation of a medication for the treatment of diseases related to pre-messenger RNA splicing processes within the cell.~~

2. (currently amended) ~~Use~~ The method according to of claim 1, wherein ~~the said compound of benzo-indole derivatives~~ are is a pyrido-carbazole derivatives of said, ~~and in~~ formula I, ~~when wherein~~ X represents CR₄, and ring A represents



or



/

wherein R₁ represents a said -N-R₆R₇ or said -NH-R₈ group, a hydrogen atom, a

a -C=N-OH or -O-C(=O)(CH₃) or -C≡N group,

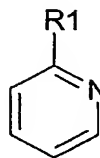
R₃ represents a hydrogen atom,

R₄ represents a hydroxy group or a methoxy group ~~possibly~~ optionally substituted by a phenyl group, and

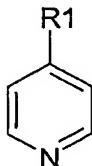
R₁₃ represents a hydrogen atom, ~~and~~

~~R₂, R₅, R₆, R₇, R₈, R₉, R₁₀, R₁₁ and R₁₂ are such as defined in claim 1.~~

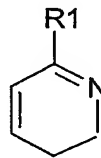
3. (currently amended) ~~The method of~~ Use according to claim 1, wherein ~~the said compound of pyrido-indole derivatives~~ are is a derivatives of pyrido-pyrrolo-isoquinoline, ~~and in~~ of said formula I, ~~when wherein~~ X represents N or N⁺R₄ anhydro base, and ring A represents



or



or



wherein R1 represents a halogen atom, an amino group, said -N-R6R7 or said -NH-R8 group,

R2 represents a hydrogen atom or a methyl group,

R3 represents a hydrogen atom or a said NH-R8 group,

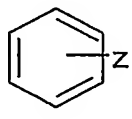
R4 represents a hydrogen atom or a methyl group,

R5 represents a hydrogen atom or a methyl group when X represents N or and R5 is absent when X represents said N⁺R4 anhydro base, and

R11 represents a hydrogen atom or a methyl group, and

~~R6, R7, R8, R9, R10, R12 and R13 are such as defined in claim 1.~~

4. (currently amended) ~~Use according to~~ The method of claim 1, wherein ~~the said~~ pyrido-indole derivatives are is a derivatives of benzo-pyrido-indole, and in of said formula I, ~~when~~ wherein X represents N, and ring A represents



and is in position a, b or c,

R3 represents a halogen atom, an amino group, a said -N-R6R7 or said -NH-R8 group,

R5 represents a hydrogen atom or a methyl group,

R2 and R11 represent independently of one another ~~a~~ a hydrogen atom or a methyl group, or are ~~respectively~~ absent when ring A is in position a and c, and

R13 represents a hydrogen atom, and

~~Z, R6, R7, R8, R9, R10 and R12 are such as defined in claim 1.~~

5. (currently amended) The method of ~~Use according to~~ claim 1, wherein ~~the said~~ compound is selected from ~~the a~~ a group ~~comprised~~ consisting of:

~~N'~~-(9-methoxy-5,6,11-trimethyl-6H-pyrido[4,3-b]carbazol-1-yl)-N,N-dimethyl-propane-1,3-diamine,

~~N'~~-(9-methoxy-6,11-dimethyl-6H-pyrido[4,3-b]carbazol-1-yl)-N,N-dimethyl-propane-1,3-diamine,

~~10~~-chloro-2,6-dimethyl-2H-pyrido[3',4':4,5]pyrrolo[2,3-

g]isoquinoline,
| ~9-hydroxy-5-methyl-6H-pyrido[4,3-b]carbazol-1-yl acetic acid
ester,
| ~1-(3-dimethylamino-propylamino)5-methyl-6H-pyrido[4,3-
b]carbazol-9-ol,
| ~9-methoxy-5-methyl-6H-pyrido[4,3-b]carbazol-1-carbaldehyde
oxime,
| ~N'(9-methoxy-5-methyl-6H-pyrido[4,3-b]carbazol-11-yl)-N,N-
dimethyl-propane-1,3-diamine,
| ~N,N-diethyl-N'-(9-methoxy-5-methyl-6H-pyrido[4,3-b]carbazol-1-
yl)-propane-1,3-diamine,
| ~N'-(6,11-dimethyl-5H-pyrido[3',4':4,5]pyrrolo[2,3-
g]isoquinolin-10-yl)-N,N-dimethyl-propane-1,3-diamine,
| ~allyl-(9-methoxy-5,11-dimethyl-6H-pyrido[4,3-b]carbazol-1-yl)-
amine,
| ~N,N-diethyl-N4-(9-methoxy-5-methyl-6H-pyrido[4,3-b]carbazol-1-
yl)-pentane-1,4-diamine,
| ~N,N-dimethyl-N'-(6-methyl-5H-pyrido[3',4':4,5]pyrrolo[2,3-
g]isoquinolin-10-yl)-propane-1,3-diamine,
| ~9-methoxy-1-[6-(9-methoxy-5-methyl-6H-pyrido[4,3-b]carbazol-1-
ylamino)-hexylamino]-2,5-dimethyl-6H-pyrido[4,3-b]carbazol-2-ium
iodide,
| ~{3-[4(3-amino-propyl)-piperazin-1-yl]-propyl}-9-methoxy-5-
methyl-6H-pyrido[4,3-b]carbazol-1-yl)-amine,
| ~(3-imidazol-1-yl-propyl)-9-methoxy-5-methyl-6H-pyrido[4,3-
b]carbazol-1-yl)-amine,
| ~(9-methoxy-5-methyl-6H-pyrido[4,3-b]carbazol-1-yl)-(2,2,6,6-
tetramethyl-piperidin-4-yl)-amine,
| ~N-ethyl-N-[3-(9-methoxy-5,11-dimethyl-6H-pyrido[4,3-b]carbazol-
1-ylamino)-propyl]-succinamic acid,
| ~N-ethyl-N-[3-(6-methyl-5H-pyrido[3',4':4,5]pyrrolo[2,3-
g]isoquinolin-10-ylamino)-propyl]-succinamic acid,
| ~5,11-dimethyl-1-(3-methyl-butylamino)-6H-pyrido[4,3-b]carbazol-
9-ol,
| ~2-{(2-hydroxy-ethyl)-[3-(6-methyl-5H-
pyrido[3',4',:4,5]pyrrolo[2,3-g]isoquinolin-10-ylamino) propyl]-
amino-ethanol,

| ~N,N-diethyl-N'-(6-methyl-5H-pyrido[3',4':4,5]pyrrolo[2,3-g]isoquinolin-10-yl)-ethane-1,2-diamine,
| ~N'-(9-benzyloxy-6-methoxymethyl-5-methyl-6H-pyrido[4,3-b]carbazol-1-yl)-N,N-diethyl-propane-1,3-diamine,
| ~1-(3-diethylamino-propylamino)-6-methoxymethyl-5-methyl-6H-pyrido[4,3-b]carbazol-9-ol,
| ~9-methoxy-5-methyl-4,6-dihydro-3H-pyrido[4,3-b]carbazol,
| ~N-(6-methyl-5H-pyrido[3',4':4,5]pyrrolo[2,3-g]isoquinolin-10-yl)-propane-1,3-diamine,
| ~1-(3-diethylamino-propylamino)-5,11-dimethyl-6H-pyrido[4,3-b]carbazol-9-ol,
| ~N-(9-methoxy-5,11-dimethyl-6H-pyrido[4,3-b]carbazol-1-yl)-propane-1,3-diamine,
| ~N-3-(5,6-dimethyl-5H-pyrido[3',4':4,5]pyrrolo[2,3-g]isoquinolin-10-yl)-N,N-1-diethyl-butane-1,3-diamine,
| ~N,N-diethyl-N'-(9-methoxy-5,6,11-trimethyl-6H-pyrido[4,3-b]carbazol-1-yl)-ethane-1,2-diamine,
| ~N-(6,11-dimethyl-5H-pyrido[3',4':4,5]pyrrolo[2,3-g]isoquinolin-10-yl)-N'-ethyl-propane-1,3-diamine,
| ~N-(9-methoxy-5-methyl-6H-pyrido[4,3-b]carbazol-1-yl)-propane-1,3-diamine,
| ~N'-(5,6-dimethyl-5H-pyrido[3'4':4,5]pyrrolo[2,3-g]isoquinolin-10-yl)-N,N-dimethyl-propane-1,3-diamine,
| ~N-(5,6-dimethyl-5H-pyrido[3'4':4,5]pyrrolo[2,3-g]isoquinolin-10-yl)-N'-ethyl-propane-1,3-diamine,
| ~9-methoxy-5-methyl-6H-pyrido[4,3-b]carbazol-1-carbonitrile,
| ~1-(3-diethylamino-propylamino)-5-methyl-6H-pyrido[4,3-b]carbazol-9-ol,
| ~(9-methoxy-5,11-dimethyl-6H-pyrido[4,3-b]carbazol-1-yl)-(3-morpholin-4-yl-propyl)-amine,
| ~N-ethyl-N'-(9-methoxy-5-methyl-6H-pyrido[4,3-b]carbazol-1-yl)-propane-1,3-diamine,
| ~N-(9-methoxy-5-methyl-6H-pyrido[4,3-b]carbazol-1-yl)-pentane-1,5-diamine,
| ~N-(9-methoxy-5-methyl-6H-pyrido[4,3-b]carbazol-1-yl)-hexane-1,6-diamine,
| ~N'-(9-methoxy-5-methyl-6H-pyrido[4,3-b]carbazol-1-yl)-N,N-

dimethyl-ethane-1,2-diamine,
~N,N-diethyl-N'-(9-methoxy-5,11-dimethyl-6H-pyrido[4,3-b]carbazol-1-yl)-propane-1,3-diamine,
~(9-methoxy-5-methyl-6H-pyrido[4,3-b]carbazol-1-yl)-(2-pyrrolidin-1-yl-ethyl)-amine,
~3-(9-methoxy-5-methyl-6H-pyrido[4,3-b]carbazol-1-ylamino)-propane-1,2-diol,
~1-diethylamino-3-(9-methoxy-5-methyl-6H-pyrido[4,3-b]carbazol-1-ylamino)-propan-2-ol,
~(3-imidazol-1-yl-propyl)-(6-methyl-5H-pyrido[3',4':4,5]pyrrolo[2,3-g]isoquinolin-10-yl)-amine,
~decyl-(9-methoxy-5,11-dimethyl-6H-pyrido[4,3-b]carbazol-1-yl)-amine,
~N-(3-methoxy-10-methyl-11H-benzo[g]pyrido[4,3-b]indol-7-yl)-butane-1,4-diamine,
~8-methyl-11-(3-methylamino-propylamino)-7H-benzo[e]pyrido[4,3-b]indol-3-ol,
~1-diethylamino-3-(9-methoxy-5,11-dimethyl-6H-pyrido[4,3-b]carbazol-1-ylamino)-propan-2-ol,
~N,N-diethyl-N'-(9-methoxy-5,6-dimethyl-6H-pyrido[4,3-b]carbazol-1-yl)-ethane-1,2-diamine,
~N,N-diethyl-N'-(6-methyl-5H-pyrido[3',4':4,5]pyrrolo[2,3-g]isoquinolin-10-yl)-propane-1,3-diamine,
~N-1,N-10-Bis-(3-diethylamino-propyl)-3,6-dimethyl-5H-pyrido[3',4':4,5]pyrrolo[2,3-g]isoquinoline-1,10-diamine,
~N-ethyl-N'-(9-methoxy-5,11-dimethyl-6H-pyrido[4,3-b]carbazol-1-yl)-propane-1,3-diamine,
~N-(5,6-dimethyl-5H-benzo[f]pyrido[4,3-b]indol-1-yl)-N'-ethyl-propane-1,3-diamine,
~N'-(9-methoxy-5,6-dimethyl-5H-benzo[f]pyrido[4,3-b]indol-1-yl)-N,N-dimethyl-propane-1,3-diamine,
~1-(3-dimethylamino-propylamino)-5,6-dimethyl-5H-benzo[f]pyrido[4,3-b]indol-9-ol,
~N-(3-methoxy-8-methyl-7H-benzo[e]pyrido[4,3-b]indol-11-yl)-N'-methyl-propane-1,3-diamine,
~5-(7-chloro-10-methyl-11H-benzo[g]pyrido[4,3-b]indol-3-yloxy)-pentanoic acid ethyl ester,

~N,N-dimethyl-N'-(10,11-dimethyl-10H-pyrido[3'4':4,5]pyrrolo[3,2-g]quinoline)-4-yl-propane-1,3-diamine,
~N,N-diethyl-N'-(10,11-dimethyl-10H-pyrido[3'4':4,5]pyrrolo[3,2-g]quinoline)-4-yl-propane-1,3-diamine,
~N'-(7-methoxy-10,11-dimethyl-10H-pyrido[2,3-b]carbazol-4-yl)-N,N-dimethyl-propane-1,3-diamine,
~N,N-diethyl-N'-(7-methoxy-10,11-dimethyl-10H-pyrido[2,3-b]carbazol-4-yl)-propane-1,3-diamine,
~9-methoxy-5,11-dimethyl-6H-pyrido[4,3-b]carbazol-1-yl-amine,
~N,N-diethyl-N'-(7-methoxy-11-methyl-10H-pyrido[2,3-b]carbazol-4-yl)-propane-1,3-diamine,
~N,N-diethyl-N'-(11-methyl-10H-pyrido[3',4':4,5]pyrrolo[3,2-g]quinoline)-4-yl-propane-1,3-diamine,
~N,N-diethyl-N'-(7-methoxy-5,11-dimethyl-10H-pyrido[2,3-b]carbazol-4-yl)-propane-1,3-diamine,
~N,N-dimethyl-N'-(11-methyl-10H-pyrido[3',4':4,5]pyrrolo[3,2-g]quinoline)-4-yl-propane-1,3-diamine,
~11-(3-dimethylamino-propylamino)-8-ethyl-7H-benzo[e]pyrido[4,3-b]indol-3-ol,
~7-(3-diethylamino-propylamino)-10,11-dimethyl-11H-benzo[g]pyrido[4,3-b]indol-4-ol,
~11-(3-dimethylamino-propylamine)-7H-benzo[e]pyrido[4,3-b]indol-3-ol,
~N'-(3-methoxy-7H-benzo[e]pyrido[4,3-b]indol-11-yl)-N,N-dimethyl-propane-1,3-diamine,
~N'-8-ethyl-3-methoxy-7-methyl-7H-benzo[e]pyrido[4,3-b]indol-11-yl)-N,N-dimethyl-propane-1,3-diamine,
~11-(3-dimethylamino-propylamino)-8-methyl-7H-benzo[e]pyrido[4,3-b]indol-2-ol,
~N,N-diethyl-N'-(3-methoxy-10,11-dimethyl-11H-benzo[g]pyrido[4,3-b]indol-7-yl)-propane-1,3-diamine,
~11-(3-dimethylamino-propylamino)-7,8-dimethyl-7H-benzo[e]pyrido[4,3-b]indol-3-ol,
~7-(3-dimethylamino-propylamino)-10-methyl-11H-benzo[g]pyrido[4,3-b]indol-4-ol,
~N'-(2-methoxy-8-methyl-7H-benzo[e]pyrido[4,3-b]indol-11-yl)-

N,N-dimethyl-propane-1,3-diamine,
| ~N'-(10,11-dimethyl-11H-benzo[g]pyrido[4,3-b]indol-7-yl)-N,N-
diethyl-propane-1,3-diamine,
| ~N'-(7,8-dimethyl-7H-benzo[e]pyrido[4,3-b]indol-11-yl)-N,N-
dimethyl-propane-1,3-diamine,
| ~N,N-dimethyl-N'-(10-methyl-11H-benzo[g]pyrido[4,3-b]indol-7-
yl)-propane-1,3-diamine,
| ~7-(3-diethylamino-propylamino)-10,11-dimethyl-11H-
benzo[g]pyrido[4,3-b]indol-3-ol,
| ~N,N-diethyl-N'-(10-methyl-11H-benzo[g]pyrido[4,3-b]indol-7-yl)-
propane-1,3-diamine,
| ~4-methoxy-10-methyl-11H-benzo[g]pyrido[4,3-b]indol-7-ylamine,
| ~N,N-diethyl-N'-(3-methoxy-10-methyl-11H-benzo[g]pyrido[4,3-
b]indol-7-yl)-propane-1,3-diamine,
| ~N'-(4-methoxy-10,11-dimethyl-11H-benzo[g]pyrido[4,3-b]indol-7-
yl)-N,N-dimethyl-propane-1,3-diamine,
| ~7-(3-(dimethylamino-propylamino)-10,11-dimethyl-11H-
benzo[g]pyrido[4,3-b]indol-4-ol,
| ~N,N-dimethyl-N'-(8-methyl-7H-benzo[e]pyrido[4,3-b]indol-11-yl)-
propane-1,3-diamine,
| ~11-(3-dimethylamino-2-methyl-propylamino)-8-methyl-7H-
benzo[e]pyrido[4,3-b]indol-3-ol,
| ~N-(3-methoxy-8-methyl-7H-benzo[e]pyrido[4,3-b]indol-11-yl)-
propane-1,3-diamine,
| ~11-(3-amino-propylamino)-8-methyl-7H-benzo[e]pyrido[4,3-
b]indol-3-ol,
| ~N-(3-methoxy-10-methyl-11H-benzo[g]pyrido[4,3-b]indol-7-yl)-
propane-1,3-diamine,
| ~N'-(3-methoxy-8-methyl-7H-benzo[e]pyrido[4,3-b]indol-11-yl)-
N,N-dimethyl-propane-1,3-diamine,
| ~N'-(4-methoxy-8-methyl-7H-benzo[e]pyrido[4,3-b]indol-11-yl)-
N,N-dimethyl-propane-1,3-diamine,
| ~N-(3-amino-propyl)N'-[3-(3-methoxy-8-methyl-7H-
benzo[e]pyrido[4,3-b]indol-11-ylamino)-propyl]butane-1,4-
diamine,
| ~N-(3-methoxy-8-methyl-7H-benzo[e]pyrido[4,3-b]indol-11-yl)-
hexane-1,6-diamine,

Nc1ccc2c(c1)c3ccccc3n2-[3-(3-methoxy-10-methyl-11H-benzo[g]pyrido[4,3-b]indol-7-ylamino)-propyl]-propane-1,3-diamine,
Nc1ccc2c(c1)c3ccccc3n2-[3-(3-methoxy-10-methyl-11H-benzo[g]pyrido[4,3-b]indol-7-ylamino)-propyl]-N-methyl-propane-1,3-diamine,
Nc1ccc2c(c1)c3ccccc3n2-[3-(3-methoxy-8-methyl-7H-benzo[e]pyrido[4,3-b]indol-11-ylamino)-propyl]-propane-1,3-diamine,
Nc1ccc2c(c1)c3ccccc3n2-(5,6-dimethyl-5H-pyrido[3'4':4,5]pyrrolo[2,3-g]isoquinolin-10-yl)-N'-ethyl-propane-1,3-diamine, and
Nc1ccc2c(c1)c3ccccc3n2-6-methyl-5H-pyrido[3',4':4,5]pyrrolo[2,3-g]isoquinolin-10-yl-amine.

6. (currently amended) ~~Use according to~~ The method as in claims 1 and or 2, wherein the said compound is selected from the a group comprised consisting of:

Nc1ccc2c(c1)c3ccccc3n2-N'-(9-methoxy-5,6,11-trimethyl-6H-pyrido[4,3-b]carbazol-1-yl)-N,N-dimethyl-propane-1,3-diamine,
Nc1ccc2c(c1)c3ccccc3n2-N'-(9-methoxy-6,11-dimethyl-5H-pyrido[4,3-b]carbazol-1-yl)-N,N-dimethyl-propane-1,3-diamine,
CC(=O)Oc1ccc2c(c1)c3ccccc3n2-9-hydroxy-5-methyl-6H-pyrido[4,3-b]carbazol-1-yl acetic acid ester,
CC1=CC=C(C=C1)C2=CC=CC=C2N2CCN(C)CCN2-1-(3-dimethylamino-propylamino)5-methyl-6H-pyrido[4,3-b]carbazol-9-ol,
CC1=CC=C(C=C1)C2=CC=CC=C2N2CCN(C)CCN2-9-methoxy-5-methyl-6H-pyrido[4,3-b]carbazol-1-carbaldehyde oxime,
Nc1ccc2c(c1)c3ccccc3n2-N'-(9-methoxy-5-methyl-6H-pyrido[4,3-b]carbazol-11-yl)-N,N-dimethyl-propane-1,3-diamine,
Nc1ccc2c(c1)c3ccccc3n2-N,N-diethyl-N'-(9-methoxy-5-methyl-6H-pyrido[4,3-b]carbazol-1-yl)-propane-1,3-diamine,
Nc1ccc2c(c1)c3ccccc3n2-allyl-(9-methoxy-5,11-dimethyl-6H-pyrido[4,3-b]carbazol-1-yl)-amine,
Nc1ccc2c(c1)c3ccccc3n2-N,N-diethyl-N4-(9-methoxy-5-methyl-6H-pyrido[4,3-b]carbazol-1-yl)-pentane-1,4-diamine,
Nc1ccc2c(c1)c3ccccc3n2-9-methoxy-1-[6-(9-methoxy-5-methyl-6H-pyrido[4,3-b]carbazol-1-ylamino)-hexylamino]-2,5-dimethyl-6H-pyrido[4,3-b]carbazol-2-ium iodide,
Nc1ccc2c(c1)c3ccccc3n2-{3-[4(3-amino-propyl)-piperazin-1-yl]-propyl}-9-methoxy-5-methyl-6H-pyrido[4,3-b]carbazol-1-yl)-amine,

| $\tilde{\sim}$ (3-imidazol-1-yl-propyl)-9-methoxy-5-methyl-6H-pyrido[4,3-b]carbazol-1-yl)-amine,
| $\tilde{\sim}$ (9-methoxy-5-methyl-6H-pyrido[4,3-b]carbazol-1-yl)-(2,2,6,6-tetramethyl-piperidin-4-yl)-amine,
| $\tilde{\sim}$ N-ethyl-N-[3-(9-methoxy-5,11-dimethyl-6H-pyrido[4,3-b]carbazol-1-ylamino)-propyl]-succinamic acid,
| $\tilde{\sim}$ 5,11-dimethyl-1-(3-methyl-butylamino)-6H-pyrido[4,3-b]carbazol-9-ol,
| $\tilde{\sim}$ N'-(9-benzyloxy-6-methoxymethyl-5-methyl-6H-pyrido[4,3-b]carbazol-1-yl)-N,N-diethyl-propane-1,3-diamine,
| $\tilde{\sim}$ 1-(3-diethylamino-propylamino)-6-methoxymethyl-5-methyl-6H-pyrido[4,3-b]carbazol-9-ol,
| $\tilde{\sim}$ 9-methoxy-5-methyl-4,6-dihydro-3H-pyrido[4,3-b]carbazol-9-ol,
| $\tilde{\sim}$ 1-(3-diethylamino-propylamino)-5,11-dimethyl-6H-pyrido[4,3-b]carbazol-9-ol,
| $\tilde{\sim}$ N-(9-methoxy-5,11-dimethyl-6H-pyrido[4,3-b]carbazol-1-yl)-propane-1,3-diamine,
| $\tilde{\sim}$ N,N-diethyl-N'-(9-methoxy-5,6,11-trimethyl-6H-pyrido[4,3-b]carbazol-1-yl)-ethane-1,2-diamine,
| $\tilde{\sim}$ N-(9-methoxy-5-methyl-6H-pyrido[4,3-b]carbazol-1-yl)-propane-1,3-diamine,
| $\tilde{\sim}$ 9-methoxy-5-methyl-6H-pyrido[4,3-b]carbazol-1-carbonitrile,
| $\tilde{\sim}$ 1-(3-diethylamino-propylamino)-5-methyl-6H-pyrido[4,3-b]carbazol-9-ol,
| $\tilde{\sim}$ (9-methoxy-5,11-dimethyl-6H-pyrido[4,3-b]carbazol-1-yl)-(3-morpholin-4-yl-propyl)-amine,
| $\tilde{\sim}$ N-ethyl-N'-(9-methoxy-5-methyl-6H-pyrido[4,3-b]carbazol-1-yl)-propane-1,3-diamine,
| $\tilde{\sim}$ N-(9-methoxy-5-methyl-6H-pyrido[4,3-b]carbazol-1-yl)-pentane-1,5-diamine
| $\tilde{\sim}$ N-(9-methoxy-5-methyl-6H-pyrido[4,3-b]carbazol-1-yl)-hexane-1,6-diamine,
| $\tilde{\sim}$ N'-(9-methoxy-5-methyl-6H-pyrido[4,3-b]carbazol-1-yl)-N,N-dimethyl-ethane-1,2-diamine,
| $\tilde{\sim}$ N,N-diethyl-N'-(9-methoxy-5,11-dimethyl-6H-pyrido[4,3-b]carbazol-1-yl)-propane-1,3-diamine,
| $\tilde{\sim}$ (9-methoxy-5-methyl-6H-pyrido[4,3-b]carbazol-1-yl)-(2-

pyrrolidin-1-yl-ethyl)-amine,
 ~3-(9-methoxy-5-methyl-6H-pyrido[4,3-b]carbazol-1-ylamino)-
 propane-1,2-diol,
 ~1-diethylamino-3-(9-methoxy-5-methyl-6H-pyrido[4,3-b]carbazol-
 1-ylamino)-propan-2-ol,
 ~decyl-(9-methoxy-5,11-dimethyl-6H-pyrido[4,3-b]carbazol-1-yl)-
 amine,
 ~1-diethylamino-3-(9-methoxy-5,11-dimethyl-6H-pyrido[4,3-
 b]carbazol-1-ylamino)-propan-2-ol,
 ~N,N-diethyl-N'-(9-methoxy-5,6-dimethyl-6H-pyrido[4,3-
 b]carbazol-1-yl)-ethane-1,2-diamine,
 ~N-ethyl-N'-(9-methoxy-5,11-dimethyl-6H-pyrido[4,3-b]carbazol-1-
 yl)-propane-1,3-diamine,
 ~N'-(7-methoxy-10,11-dimethyl-10H-pyrido[2,3-b]carbazol-4-yl)-
 N,N-dimethyl-propane-1,3-diamine,
 ~N,N-diethyl-N'-(7-methoxy-10,11-dimethyl-10H-pyrido[2,3-
 b]carbazol-4-yl)-propane-1,3-diamine,
 ~9-methoxy-5,11-dimethyl-6H-pyrido[4,3-b]carbazol-1-yl-amine,
 ~N,N-diethyl-N'-(7-methoxy-11-methyl-10H-pyrido[2,3-b]carbazol-
 4-yl)-propane-1,3-diamine, and
 ~N,N-diethyl-N'-(7-methoxy-5,11-dimethyl-10H-pyrido[2,3-
 b]carbazol-4-yl)-propane-1,3-diamine.

7. (currently amended) ~~Use according to~~ The method as in
 claims 1 ~~and or~~ 4, wherein ~~the said~~ the compound 'is selected from
~~the a group comprised consisting of:~~

~10-chloro-2,6-dimethyl-2H-pyrido[3',4':4,5]pyrrolo[2,3-
 g]isoquinoline,
 ~N'-(6,11-dimethyl-5H-pyrido[3',4':4,5]pyrrolo[2,3-
 g]isoquinolin-10-yl)-N,N-dimethyl-propane-1,3-diamine,
 ~N,N-dimethyl-N'-(6-methyl-5H-pyrido[3',4':4,5]pyrrolo[2,3-
 g]isoquinolin-10-yl)-propane-1,3-diamine,
 ~N-ethyl-N-[3-(6-methyl-5H-pyrido[3',4':4,5]pyrrolo[2,3-
 g]isoquinolin-10-ylamino)-propyl]-succinamic acid,
 ~2-[(2-hydroxy-ethyl)-[3-(6-methyl-5H-
 pyrido[3',4':4,5]pyrrolo[2,3-g]isoquinolin-10-ylamino)propyl]-
 amino-ethanol,

~~N,N~~-diethyl-N'-(6-methyl-5H-pyrido[3',4':4,5]pyrrolo[2,3-g]isoquinolin-10-yl)-ethane-1,2-diamine,
~~N~~-(6-methyl-5H-pyrido[3',4':4,5]pyrrolo[2,3-g]isoquinolin-10-yl)-propane-1,3-diamine,
~~N~~-3-(5,6-dimethyl-5H-pyrido[3',4':4,5]pyrrolo[2,3-g]isoquinolin-10-yl)-N,N-1-diethyl-butane-1,3-diamine,
~~N~~-(6,11-dimethyl-5H-pyrido[3',4':4,5]pyrrolo[2,3-g]isoquinolin-10-yl)-N'-ethyl-propane-1,3-diamine,
~~N'~~-(5,6-dimethyl-5H-pyrido[3',4':4,5]pyrrolo[2,3-g]isoquinolin-10-yl)-N,N-dimethyl-propane-1,3-diamine,
~~N~~-(5,6-dimethyl-5H-pyrido[3',4':4,5]pyrrolo[2,3-g]isoquinolin-10-yl)-N'-ethyl-propane-1,3-diamine,
~~(3-imidazol-1-yl-propyl)-(6-methyl-5H-pyrido[3',4':4,5]pyrrolo[2,3-g]isoquinolin-10-yl)-amine,~~
~~N,N~~-diethyl-N'-(6-methyl-5H-pyrido[3',4':4,5]pyrrolo[2,3-g]isoquinolin-10-yl)-propane-1,3-diamine,
~~N~~-1,N-10-Bis-(3-diethylamino-propyl)-3,6-dimethyl-5H-pyrido[3',4':4,5]pyrrolo[2,3-g]isoquinoline-1,10-diamine,
~~N,N~~-dimethyl-N'-(10,11-dimethyl-10H-pyrido[3',4':4,5]pyrrolo[3,2-g]quinoline)-4-yl-propane-1,3-diamine,
~~N,N~~-diethyl-N'-(10,11-dimethyl-10H-pyrido[3',4':4,5]pyrrolo[3,2-g]quinoline)-4-yl-propane-1,3-diamine,
~~N,N~~-diethyl-N'-(11-methyl-10H-pyrido[3',4':4,5]pyrrolo[3,2-g]quinoline)-4-yl-propane-1,3-diamine,
~~N,N~~-dimethyl-N'-(11-methyl-10H-pyrido[3',4':4,5]pyrrolo[3,2-g]quinoline)-4-yl-propane-1,3-diamine,
~~N~~-(5,6-dimethyl-5H-pyrido[3',4':4,5]pyrrolo[2,3-g]isoquinolin-10-yl)-N'-ethyl-propane-1,3-diamine, and
~~6-methyl-5H-pyrido[3',4':4,5]pyrrolo[2,3-g]isoquinolin-10-yl-amine.~~

8. (currently amended) ~~Use according to~~The method as in
 claims 1 ~~and or~~ 5, wherein ~~the said~~ compound is selected from
~~a~~the group constituted by~~consisting of:~~

~~N~~-(3-methoxy-10-methyl-11H-benzo[g]pyrido[4,3-b]indol-7-yl)-
 butane-1,4-diamine,

| ~8-methyl-11-(3-methylamino-propylamino)-7H-benzo[e]pyrido[4,3-b]indol-3-ol,
| ~N-(5,6-dimethyl-5H-benzo[f]pyrido[4,3]indol-1-yl)-N'-ethyl-propane-1,3-diamine,
| ~N'-(9-methoxy-5,6-dimethyl-5H-benzo[f]pyrido[4,3-b]indol-1-yl)-N,N-dimethyl-propane-1,3-diamine,
| ~1-(3-dimethylamino-propylamino)-5,6-dimethyl-5H-benzo[f]pyrido[4,3-b]indol-9-ol,
| ~N-(3-methoxy-8-methyl-7H-benzo[e]pyrido[4,3-b]indol-11-yl)-N'-methyl-propane-1,3-diamine,
| ~5-(7-chloro-10-methyl-11H-benzo[g]pyrido[4,3-b]indol-3-yloxy)-pentanoic acid ethyl ester,
| ~11-(3-dimethylamino-propylamino)-8-ethyl-7H-benzo[e]pyrido[4,3-b]indol-3-ol,
| ~7-(3-diethylamino-propylamino)-10,11-dimethyl-11H-benzo[g]pyrido[4,3-b]indol-4-ol,
| ~11-(3-dimethylamino-propylamine)-7H-benzo[e]pyrido[4,3-b]indol-3-ol,
| ~N'-(3-methoxy-7H-benzo[e]pyrido[4,3-b]indol-11-yl)-N,N-dimethyl-propane-1,3-diamine,
| ~N'-8-ethyl-3-methoxy-7-methyl-7H-benzo[e]pyrido[4,3-b]indol-11-yl)-N,N-dimethyl-propane-1,3-diamine,
| ~11-(3-dimethylamino-propylamino)-8-methyl-7H-benzo[e]pyrido[4,3-b]indol-2-ol,
| ~N,N-diethyl-N'-(3-methoxy-10,11-dimethyl-11H-benzo[g]pyrido[4,3-b]indol-7-yl)-propane-1,3-diamine,
| ~11-(3-dimethylamino-propylamino)-7,8-dimethyl-7H-benzo[e]pyrido[4,3-b]indol-3-ol,
| ~7-(3-dimethylamino-propylamino)-10-methyl-11H-benzo[g]pyrido[4,3-b]indol-4-ol,
| ~N'-(2-methoxy-8-methyl-7H-benzo[e]pyrido[4,3-b]indol-11-yl)-N,N-dimethyl-propane-1,3-diamine,
| ~N'-(10,11-dimethyl-11H-benzo[g]pyrido[4,3-b]indol-7-yl)-N,N-diethyl-propane-1,3-diamine,
| ~N'-(7,8-dimethyl-7H-benzo[e]pyrido[4,3-b]indol-11-yl)-N,N-dimethyl-propane-1,3-diamine,
| ~N,N-dimethyl-N'-(10-methyl-11H-benzo[g]pyrido[4,3-b]indol-7-

yl)-propane-1,3-diamine,
~7-(3-diethylamino-propylamino)-10,11-dimethyl-11H-benzo[g]pyrido[4,3-b]indol-3-ol,
~N,N-diethyl-N'-(10-methyl-11H-benzo[g]pyrido[4,3-b]indol-7-yl)-propane-1,3-diamine,
~4-methoxy-10-methyl-11H-benzo[g]pyrido[4,3-b]indol-7-ylamine,
~N,N-diethyl-N'-(3-methoxy-10-methyl-11H-benzo[g]pyrido[4,3-b]indol-7-yl)-propane-1,3-diamine,
~N'-(4-methoxy-10,11-dimethyl-11H-benzo[g]pyrido[4,3-b]indol-7-yl)-N,N-dimethyl-propane-1,3-diamine,
~7-(3-(dimethylamino-propylamino)-10,11-dimethyl-11H-benzo[g]pyrido[4,3-b]indol-4-ol,
~N,N-dimethyl-N'-(8-methyl-7H-benzo[e]pyrido[4,3-b]indol-11-yl)-propane-1,3-diamine,
~11-(3-dimethylamino-2-methyl-propylamino)-8-methyl-7H-benzo[e]pyrido[4,3-b]indol-3-ol,
~N-(3-methoxy-8-methyl-7H-benzo[e]pyrido[4,3-b]indol-11-yl)-propane-1,3-diamine,
~11-(3-amino-propylamino)-8-methyl-7H-benzo[e]pyrido[4,3-b]indol-3-ol,
~N-(3-methoxy-10-methyl-11H-benzo[g]pyrido[4,3-b]indol-7-yl)-propane-1,3-diamine,
~N'-(3-methoxy-8-methyl-7H-benzo[e]pyrido[4,3-b]indol-11-yl)-N,N-dimethyl-propane-1,3-diamine,
~N'-(4-methoxy-8-methyl-7H-benzo[e]pyrido[4,3-b]indol-11-yl)-N,N-dimethyl-propane-1,3-diamine,
~N-(3-amino-propyl)N'-[3-(3-methoxy-8-methyl-7H-benzo[e]pyrido[4,3-b]indol-11-ylamino)-propyl]butane-1,4-diamine,
~N-(3-methoxy-8-methyl-7H-benzo[e]pyrido[4,3-b]indol-11-yl)-hexane-1,6-diamine,
~N-[3-(3-methoxy-10-methyl-11H-benzo[g]pyrido[4,3-b]indol-7-ylamino)-propyl]-propane-1,3-diamine,
~N-[3-(3-methoxy-10-methyl-11H-benzo[g]pyrido[4,3-b]indol-7-ylamino)-propyl]-N-methyl-propane-1,3-diamine, and
~N-[3-(3-methoxy-8-methyl-7H-benzo[e]pyrido[4,3-b]indol-11-ylamino)-propyl]-propane-1,3-diamine.

9. (currently amended) The method of claim 1~~Use~~
~~according to any one of the preceding claims, wherein the said~~
~~compound is selected from the a group comprised consisting of:~~
~N'-(9-methoxy-5,6,11-trimethyl-6H-pyrido[4,3-b]carbazol-1-yl)-
N,N-dimethyl-propane-1,3-diamine,
~N'-(9-methoxy-6,11-dimethyl-6H-pyrido[4,3-b]carbazol-1-yl)-N,N-
dimethyl-propane-1,3-diamine,
~10-chloro-2,6-dimethyl-2H-pyrido[3',4':4,5]pyrrolo[2,3-
g]isoquinoline,
~1-(3-dimethylamino-propylamino)-5-methyl-6H-pyrido[4,3-
b]carbazol-9-ol,
~N'-(9-methoxy-5-methyl-6H-pyrido[4,3-b]carbazol-11-yl)-N,N-
dimethyl-propane-1,3-diamine,
~allyl-(9-methoxy-5,11-dimethyl-6H-pyrido[4,3-b]carbazol-1-yl)-
amine,
~N,N-diethyl-N4-(9-methoxy-5-methyl-6H-pyrido[4,3-b]carbazol-1-
yl)-pentane-1,4-diamine,
~9-methoxy-1-[6-(9-methoxy-5-methyl-6H-pyrido[4,3-b]carbazol-1-
ylamino)-hexylamino]-2,5-dimethyl-6H-pyrido[4,3-b]carbazol-2-ium
iodide,
~(3-imidazol-1-yl-propyl)-9-methoxy-5-methyl-6H-pyrido[4,3-
b]carbazol-1-yl)-amine,
~(9-methoxy-5-methyl-6H-pyrido[4,3-b]carbazol-1-yl)-(2,2,6,6-
tetramethyl-piperidin-4-yl)-amine,
~N-ethyl-N-[3-(9-methoxy-5,11-dimethyl-6H-pyrido[4,3-b]carbazol-
1-ylamino)-propyl]-succinamic acid,
~N-ethyl-N-[3-(6-methyl-5H-pyrido[3',4':4,5]pyrrolo[2,3-
g]isoquinolin-10-ylamino)-propyl]-succinamic acid,
~5,11-dimethyl-1-(3-methyl-butylamino)-6H-pyrido[4,3-b]carbazol-
9-ol,
~N,N-diethyl-N'-(6-methyl-5H-pyrido[3',4':4,5]pyrrolo[2,3-
g]isoquinolin-10-yl)-ethane-1,2-diamine,
~1-(3-diethylamino-propylamino)-5,11-dimethyl-6H-pyrido[4,3-
b]carbazol-9-ol,
~N,N-diethyl-N'-(9-methoxy-5,6,1-trimethyl-6H-pyrido[4,3-
b]carbazol-1-yl)-ethane-1,2-diamine,

~~N'~~-(5,6-dimethyl-5H-pyrido[3',4':4,5]pyrrolo[2,3-g]isoquinolin-10-yl)-N,N-dimethyl-propane-1,3-diamine,
~~1~~-(3-diethylamino-propylamino)-5-methyl-6H-pyrido[4,3-b]carbazol-9-ol,
~~N,N~~-diethyl-~~N'~~-(9-methoxy-5,11-dimethyl-6H-pyrido[4,3-b]carbazol-1-yl)-propane-1,3-diamine,
~~1~~-diethylamino-3-(9-methoxy-5-methyl-6H-pyrido[4,3-b]carbazol-1-ylamino)-propan-2-ol,
~~N~~-(3-methoxy-10-methyl-11H-benzo[g]pyrido[4,3-b]indol-7-yl)-butane-1,4-diamine,
~~N,N~~-diethyl-~~N'~~-(9-methoxy-5,6-dimethyl-6H-pyrido[4,3-b]carbazol-1-yl)-ethane-1,2-diamine,
~~N,N~~-diethyl-~~N'~~-(6-methyl-5H-pyrido[3',4':4,5]pyrrolo[2,3-g]isoquinoline-10-yl)-propane-1,3-diamine,
~~N~~-(3-methoxy-8-methyl-7H-benzo[e]pyrido[4,3-b]indol-11-yl)-~~N'~~-methyl-propane-1,3-diamine,
~~4~~-methoxy-10-methyl-11H-benzo[g]pyrido[4,3-b]indol-7-ylamine,
~~N~~-(3-methoxy-10-methyl-11H-benzo[g]pyrido[4,3-b]indol-7-yl)-propane-1,3-diamine,
~~N'~~-(3-methoxy-8-methyl-7H-benzo[e]pyrido[4,3-b]indol-11-yl)-N,N-dimethyl-propane-1,3-diamine,
~~N~~-[3-(3-methoxy-10-methyl-11H-benzo[g]pyrido[4,3-b]indol-7-ylamino)-propyl]-N-methyl-propane-1,3-diamine, and
~~6~~-methyl-5H-pyrido[3',4':4,5]pyrrolo[2,3-g]isoquinolin-10-yl-amine.

10. (currently amended) ~~Use according to~~The method of claim 1, wherein ~~the said~~ splicing ~~processes are~~process is either constitutive or dependent on ESE, ISE, ESS or ISS regulatory sequences.

11. (currently amended) ~~Use according to~~The method of claim 10, wherein ~~the said~~ splicing ~~processes are~~process is either constitutive or dependent on ESE regulatory sequences.

12. (currently amended) ~~Use according to~~The method of claim 1, wherein ~~the said~~ diseases related to ~~the said~~ splicing

process ~~are~~ is a genetic diseases resulting from splicing-process modification. ~~and are notably Frasier syndrome, frontotemporal dementia related to chromosome 17 (a form of Parkinson's), Leigh syndrome (a type of encephalopathy), atypical cystic fibrosis, certain neuropathologies, such as in particular Alzheimer's, related to Tau protein mutation, amyotrophy that influences the SMN (survival motor neuron) gene, depression related to disturbances in serotonin splicing and certain cancers in which the overall splicing process is affected (notably breast cancer, colon cancer and certain lymphomas).~~

13. (currently amended) ~~Use according to~~ The method of claim 1, wherein the said diseases related to the said splicing process are is a diseases of viral origin for which ESE splicing sequences are identified.

14. (currently amended) ~~Use according to~~ The method of claim 13, wherein the said viral disease is AIDS.

15. (currently amended) ~~Use according to claim 1~~ The method of claim 1, wherein said medicine also includes further comprises an excipient ~~that makes it possible to formulate the compounds according to formula I.~~

16. (currently amended) ~~Use according to~~ The method of claim 15, wherein said medicine is presented in a solid or liquid form. ~~to be prepared and administered by intravenous route.~~

17. (original) 10-chloro-2,6-dimethyl-2H-pyrido[3',4':4,5]pyrrolo[2,3-g]isoquinoline.

18. (original) (9-methoxy-6-methyl-6H-pyrido[4,3-b]carbazol-1-yl)-(2,2,6,6-tetramethyl-piperidin-4-yl)-amine.

19. (original) N-ethyl-N-[3-(9-methoxy-5,11-dimethyl-6H-

pyrido[4,3-b]carbazol-1-ylamino)-propyl]-succinamic acid.

20. (original) N-ethyl-N-[3-(6-methyl-5H-pyrido[3',4':4,5]pyrrolo[2,3-g]isoquinolin-10-ylamino)-propyl]-succinamic acid.

21. (original) 9-methoxy-5-methyl-4,6-dihydro-3H-pyrido[4,3-b]carbazole.

22. (original) N-(3-amino-propyl)N'-[3-(3-methoxy-8-methyl-7H-benzo[e]pyrido[4,3-b]indol-11-ylamino)-propyl]butane-1,4-diamine.

23. (original) N-(3-methoxy-8-methyl-7H-benzo[e]pyrido[4,3-b]indol-11-yl)-hexane-1,6-diamine.

24. (original) N-[3-(3-methoxy-10-methyl-11H-benzo[g]pyrido[4,3-b]indol-7-ylamino)-propyl]-propane-1,3-diamine.

25. (original) N-[3-(3-methoxy-8-methyl-7H-benzo[e]pyrido[4,3-b]indol-11-ylamino)-propyl]-propane-1,3-diamine.

26. (currently amended) A medicine comprising a compound as in any one of claims 17 to 25. ~~Compound according to any of claims 9 to 17 as a medicine.~~

27. (new) A medicine comprising any one of the compounds of claim 5.

28. (new) The method of claim 12, wherein said genetic disease is Frasier syndrome, frontotemporal dementia related to chromosome 17 (a form of Parkinson's), Leigh syndrome (a type of encephalopathy), atypical cystic fibrosis, a certain neuropathology related to Tau protein mutation, Alzheimer's disease, amyotrophy that influences the SMN (survival motor

neuron) gene, depression related to disturbances in serotonin splicing or a certain cancer in which the overall splicing process is affected.

29. (new) The method of claim 34, wherein said cancer is breast cancer, colon cancer or certain lymphomas.